

## PATENT ASSIGNMENT COVER SHEET

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|------------------------------|----------------|
| <b>SUBMISSION TYPE:</b>      | NEW ASSIGNMENT |
| <b>NATURE OF CONVEYANCE:</b> | ASSIGNMENT     |

**CONVEYING PARTY DATA**

| Name                                 | Execution Date |
|--------------------------------------|----------------|
| INTELLECTUAL VENTURES ASSETS 150 LLC | 11/15/2019     |

**RECEIVING PARTY DATA**

|                          |                       |
|--------------------------|-----------------------|
| <b>Name:</b>             | KIOBA PROCESSING, LLC |
| <b>Street Address:</b>   | 44 MILTON AVENUE      |
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| <b>State/Country:</b>    | GEORGIA               |
| <b>Postal Code:</b>      | 30009                 |

**PROPERTY NUMBERS Total: 46**

| Property Type  | Number   |
|----------------|----------|
| Patent Number: | 6970843  |
| Patent Number: | 7219082  |
| Patent Number: | 6703918  |
| Patent Number: | 6199757  |
| Patent Number: | 6405930  |
| Patent Number: | 6561416  |
| Patent Number: | 6609662  |
| Patent Number: | 7104443  |
| Patent Number: | 7775426  |
| Patent Number: | 7194618  |
| Patent Number: | 8006299  |
| Patent Number: | 7954148  |
| Patent Number: | 8417956  |
| Patent Number: | 8893264  |
| Patent Number: | 9374227  |
| Patent Number: | 9648028  |
| Patent Number: | 10020938 |
| Patent Number: | 7043443  |
| Patent Number: | 6763127  |

PATENT

| Property Type       | Number   |
|---------------------|----------|
| Patent Number:      | 7259673  |
| Patent Number:      | 7107078  |
| Patent Number:      | 6944822  |
| Patent Number:      | 6922693  |
| Patent Number:      | 7155744  |
| Patent Number:      | 7076469  |
| Patent Number:      | 6993662  |
| Patent Number:      | 7155743  |
| Patent Number:      | RE44209  |
| Patent Number:      | 7003495  |
| Patent Number:      | 7080037  |
| Patent Number:      | 7340439  |
| Patent Number:      | 7383579  |
| Patent Number:      | 7707636  |
| Patent Number:      | 6865676  |
| Patent Number:      | 8665865  |
| Patent Number:      | 8902882  |
| Patent Number:      | 7110792  |
| Patent Number:      | 7286818  |
| Patent Number:      | 7330714  |
| Patent Number:      | 8676249  |
| Patent Number:      | 9208486  |
| Patent Number:      | 7523067  |
| Patent Number:      | 7448540  |
| Application Number: | 16029982 |
| Application Number: | 15368149 |
| Application Number: | 15807947 |

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| <b>ATTORNEY DOCKET NUMBER:</b> | 11205-001GEN |
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| <b>NAME OF SUBMITTER:</b>   | LAWRENCE A. AARONSON   |
| <b>SIGNATURE:</b>   | /Lawrence A. Aaronson/ |
| <b>DATE SIGNED:</b>   | 01/03/2020             |
| <b>Total Attachments: 7</b><br>source=IV 150 to Kioba Processing (Active)#page1.tif<br>source=IV 150 to Kioba Processing (Active)#page2.tif<br>source=IV 150 to Kioba Processing (Active)#page3.tif<br>source=IV 150 to Kioba Processing (Active)#page4.tif<br>source=IV 150 to Kioba Processing (Active)#page5.tif<br>source=IV 150 to Kioba Processing (Active)#page6.tif<br>source=IV 150 to Kioba Processing (Active)#page7.tif |                        |

# **ASSIGNMENT OF PATENT RIGHTS**

For good and valuable consideration, the receipt of which is hereby acknowledged, Intellectual Ventures Assets 150 LLC, a Delaware limited liability company, with an address at 251 Little Falls Drive, Wilmington, DE 19808 ("**Assignor**"), does hereby sell, assign, transfer, and convey unto Kioba Processing, LLC, a Georgia limited liability company with an address at 44 Milton Avenue, Suite 254, Alpharetta, GA 30009 ("**Assignee**"), all of Assignor's right, title, and interest in and to the following (collectively, the "**Assigned Patent Rights**"):

- (a) the patents and patent applications listed in the table below (the "**Patents**");

## **Active Patent(s) – (Filed; Granted)**

| <b><u>Patent/Application Number</u></b> | <b><u>Country</u></b> | <b><u>Issue Date/<br/>Filing Date</u></b> | <b><u>Title of Patent<br/>and First Named Inventor</u></b>  |
|---|-----------------------|---|---|
| 6970843<br>(09/644560)                  | US                    | 11/29/2005<br>(8/24/2000)                 | FINANCIAL<br>MANAGEMENT SYSTEM<br><br>Forte, Patrick A.   |
| 7219082<br>(11/228267)                  | US                    | 5/15/2007<br>(9/19/2005)                  | FINANCIAL<br>MANAGEMENT SYSTEM<br><br>Forte, Patrick  |
| 6703918<br>(09/651441)                  | US                    | 3/9/2004<br>(8/30/2000)                   | Portable Information<br>Equipment, Authentication<br>Device, Authentication System<br>And Authentication Method<br><br>Kita, Kazunori |
| 6199757<br>(09/496096)                  | US                    | 3/13/2001<br>(2/1/2000)                   | Debit card having scratch-off<br>label strip and method of<br>applying same<br><br>Kubert, Vincent                                    |
| 6405930<br>(09/705136)                  | US                    | 6/18/2002<br>(11/2/2000)                  | Debit card having scratch-off<br>label strip and method of<br>applying same<br><br>Kubert, Vincent                                    |
| 6561416<br>(09/772566)                  | US                    | 5/13/2003<br>(1/30/2001)                  | Debit card having secure<br>scratch-off label strip and<br>method of applying same<br><br>Vincent Kubert                              |
| 6609662<br>(09/827326)                  | US                    | 8/26/2003<br>(4/5/2001)                   | Debit card having secure<br>scratch-off label strip with<br>releasable layer and method of<br>applying same                           |

| <b>Patent/Application Number</b> | <b>Country</b> | <b><u>Issue Date/<br/>Filing Date</u></b> | <b><u>Title of Patent<br/>and First Named Inventor</u></b>                                   |
|----------------------------------|----------------|---|--|
|                                  |                |   | Annacone, William R.   |
| 7104443<br>(10/128153)           | US             | 9/12/2006<br>(4/22/2002)                  | Method and system for<br>facilitating electronic funds<br>transactions<br><br>Paul, David K. |
| 7775426<br>(11/507938)           | US             | 8/17/2010<br>(8/21/2006)                  | Method and system for<br>facilitating electronic funds<br>transactions<br><br>Paul, David K. |
| 7194618<br>(10/092943)           | US             | 3/20/2007<br>(3/5/2002)                   | Encryption and authentication<br>systems and methods<br><br>Edwin A. Suominen                |
| 8006299<br>(11/725735)           | US             | 8/23/2011<br>(3/19/2007)                  | Encryption and authentication<br>systems and methods<br><br>Edwin A. Suominen                |
| 7954148<br>(12/643940)           | US             | 5/31/2011<br>(12/21/2009)                 | Encryption and authentication<br>systems and methods<br><br>Edwin A. Suominen                |
| 8417956<br>(13/214928)           | US             | 4/9/2013<br>(8/22/2011)                   | Encryption and authentication<br>systems and methods<br><br>Edwin A. Suominen                |
| 8893264<br>(13/853799)           | US             | 11/18/2014<br>(3/29/2013)                 | Encryption and authentication<br>systems and methods<br><br>Edwin A. Suominen                |
| 9374227<br>(14/537629)           | US             | 6/21/2016<br>(11/10/2014)                 | Verification of Signed Digital<br>Documents<br><br>Edwin A. Suominen                         |
| 9648028<br>(15/183145)           | US             | 5/9/2017<br>(6/15/2016)                   | Verification of Signed Video<br>Streams<br><br>Edwin A. Suominen                             |
| 10020938<br>(15/588420)          | US             | 7/10/2018<br>(5/5/2017)                   | SECURE MESSAGING<br>WITH DISPOSABLE KEYS<br><br>Edwin A. Suominen                            |

| <b>Patent/Application Number</b> | <b>Country</b> | <b>Issue Date/<br/>Filing Date</b> | <b>Title of Patent<br/>and First Named Inventor</b>  |
|----------------------------------|----------------|------------------------------------|--|
| (16/029982)                      | US             | (7/9/2018)                         | SECURE MESSAGING<br>WITH DISPOSABLE KEYS<br><br>Edwin A. Suominen  |
| 7043443<br>(09/821772)           | US             | 5/9/2006<br>(3/30/2001)            | Method and system for<br>matching potential employees<br>and potential employers over a<br>network<br><br>Firestone, Lisa M.               |
| 6763127<br>(09/680999)           | US             | 7/13/2004<br>(10/6/2000)           | Apparatus And Method For<br>Fingerprint Recognition<br>System<br><br>Lin, Shang-Hung;<br>Jen, Hung-Min                                     |
| 7259673<br>(10/996800)           | US             | 8/21/2007<br>(11/24/2004)          | Anti-theft arrangement,<br>method and program<br><br>Deeds, Douglas  |
| 7107078<br>(09/903225)           | US             | 9/12/2006<br>(7/11/2001)           | Method and system for the<br>effecting payments by means<br>of a mobile station<br><br>Mariette Lehto                                      |
| 6944822<br>(09/595814)           | US             | 9/13/2005<br>(6/16/2000)           | METHOD AND<br>APPARATUS FOR<br>PREVENTING REUSE OF<br>TEXT, IMAGES, AND<br>SOFTWARE<br>TRANSMITTED VIA<br>NETWORKS<br><br>Daniel Schreiber |
| 6922693<br>(09/636299)           | US             | 7/26/2005<br>(8/10/2000)           | METHOD AND SYSTEM<br>FOR COPY PROTECTION<br>OF IMAGES DISPLAYED<br>ON A COMPUTER<br>MONITOR<br><br>Moshe B. Rubin                          |
| 7155744<br>(09/730326)           | US             | 12/26/2006<br>(12/4/2000)          | COPYRIGHT PROTECTION<br>OF DIGITAL IMAGES<br>TRANSMITTED OVER<br>NETWORKS  |

| <b>Patent/Application Number</b> | <b>Country</b> | <b>Issue Date/<br/>Filing Date</b> | <b>Title of Patent<br/>and First Named Inventor</b>  |
|----------------------------------|----------------|------------------------------------|--|
|                                  |                |                                    | Andrew Goldman   |
| 7076469<br>(09/731572)           | US             | 7/11/2006<br>(12/5/2000)           | COPYRIGHT PROTECTION<br>OF DIGITAL IMAGES<br>TRANSMITTED OVER<br>NETWORKS                  |
|                                  |                |                                    | Andrew Goldman   |
| 6993662<br>(09/996623)           | US             | 1/31/2006<br>(11/28/2001)          | METHOD AND SYSTEM<br>FOR COPY PROTECTION<br>OF DISPLAYED DATA<br>CONTENT                   |
|                                  |                |                                    | Moshe Rubin  |
| 7155743<br>(10/202550)           | US             | 12/26/2006<br>(7/23/2002)          | METHOD AND SYSTEM<br>FOR CONTROLLING USE<br>OF A DYNAMICALLY<br>LINKED SOFTWARE<br>LIBRARY |
|                                  |                |                                    | Daniel I Goodman   |
| RE44209<br>(13/397620)           | US             | 5/7/2013<br>(2/15/2012)            | METHOD AND SYSTEM<br>FOR REAL-TIME<br>CONTROL OF DOCUMENT<br>PRINTING                      |
|                                  |                |                                    | Daniel I. Goodman  |
| 7003495<br>(09/675438)           | US             | 2/21/2006<br>(9/28/2000)           | PORTABLE ELECTRONIC<br>AUTHORIZATION SYSTEM<br>AND METHOD                                  |
|                                  |                |                                    | Todd O. Burger   |
| 7080037<br>(09/968628)           | US             | 7/18/2006<br>(10/1/2001)           | PORTABLE ELECTRONIC<br>AUTHORIZATION SYSTEM<br>AND METHOD                                  |
|                                  |                |                                    | Todd O Burger  |
| 7340439<br>(10/392319)           | US             | 3/4/2008<br>(3/19/2003)            | PORTABLE ELECTRONIC<br>AUTHORIZATION SYSTEM<br>AND METHOD                                  |
|                                  |                |                                    | Todd O. Burger   |
| 7383579<br>(10/225304)           | US             | 6/3/2008<br>(8/21/2002)            | Systems and methods for<br>determining anti-virus<br>protection status                     |

| <b>Patent/Application Number</b> | <b>Country</b> | <b>Issue Date/<br/>Filing Date</b> | <b>Title of Patent<br/>and First Named Inventor</b>  |
|----------------------------------|----------------|------------------------------------|--|
|                                  |                |                                    | Catanzano, M. Bernard  |
| 7707636<br>(12/132138)           | US             | 4/27/2010<br>(6/3/2008)            | Systems and methods for<br>determining anti-virus<br>protection status<br><br>Catanzano, M. Bernard  |
| 6865676<br>(09/537079)           | US             | 3/8/2005<br>(3/28/2000)            | Protecting content from illicit<br>reproduction by proof of<br>existence of a complete data<br>set via a linked list<br><br>Antonius A. M. Staring |
| 8665865<br>(12/797469)           | US             | 3/4/2014<br>(6/9/2010)             | Systems and methods for<br>providing customer support<br><br>Bao Q. Tran   |
| 8902882<br>(13/679677)           | US             | 12/2/2014<br>(11/16/2012)          | Systems and methods for<br>providing customer support<br><br>Bao Q. Tran   |
| (15/368149)                      | US             | (12/2/2016)                        | Systems and methods for<br>providing customer support<br><br>Bao Q. Tran   |
| 7110792<br>(10/848405)           | US             | 9/19/2006<br>(5/19/2004)           | Apparatus and method for<br>increased security of wireless<br>transactions<br><br>Einar Rosenberg  |
| 7286818<br>(11/105366)           | US             | 10/23/2007<br>(4/14/2005)          | Apparatus and method for<br>increased security of wireless<br>transactions<br><br>Einar Rosenberg  |
| 7330714<br>(11/105410)           | US             | 2/12/2008<br>(4/14/2005)           | Apparatus and method for<br>increased security of wireless<br>transactions<br><br>Einar Rosenberg  |
| 8676249<br>(12/007160)           | US             | 3/18/2014<br>(1/7/2008)            | Apparatus and method for<br>increased security of wireless<br>transactions<br><br>Einar Rosenberg  |



| <u>Patent/Application Number</u> | <u>Country</u> | <u>Issue Date/<br/>Filing Date</u> | <u>Title of Patent<br/>and First Named Inventor</u>   |
|----------------------------------|----------------|------------------------------------|---|
| 9208486<br>(14/183977)           | US             | 12/8/2015<br>(2/19/2014)           | Apparatus and method for increased security of wireless transactions<br><br>Einar Rosenberg   |
| (15/807947)                      | US             | (11/9/2017)                        | Apparatus and method for context based wireless information processing<br><br>Einar Rosenberg |
| JP4083428<br>(JP2001-514352)     | JP             | 2/22/2008<br>(3/29/2000)           | Electronic payment systems, settlement and terminal equipment<br><br>Keiichi Nakajima         |
| 7523067<br>(09/630557)           | US             | 4/21/2009<br>(8/2/2000)            | Electronic settlement system, settlement apparatus, and terminal<br><br>Keiichi Nakajima      |
| 7448540<br>(11/043050)           | US             | 11/11/2008<br>(1/27/2005)          | Electronic settlement system, settlement apparatus and terminal<br><br>Keiichi Nakajima       |

(b) any future reissues, reexaminations, extensions, continuations, continuing prosecution application, requests for continuing examinations, divisions, and registrations of any of the Patents;

(c) rights to apply in any or all countries of the world for future patents, certificates of invention, utility models, industrial design protections, design patent protections, or other future governmental grants or issuances of any type related to the Patents; and

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Assignor will, at the reasonable request of Assignee, take all reasonable steps necessary and proper, to confirm the assignment to Assignee of the Assigned Patent Rights pursuant to this Assignment of Patent Rights, including without limitation, the execution, acknowledgment, and recordation of specific assignments, oaths, declarations, and other documents on a country-by-country basis, to assist Assignee in obtaining and perfecting the Assigned Patent Rights.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed on November 15, 2019, to be effective as of November 15, 2019.

**ASSIGNOR:**

**INTELLECTUAL VENTURES ASSETS 150 LLC**

By: 

Name: Lawrence Froeber

Title: CFO